## U.S. Patent Application Serial No. 09/633,139

a motor rotor having salient poles said motor rotor being made of highly-corrosion-resistant metal magnetic material, each of said salient poles being a protrusion portion of unitary formed rotating body; a motor stator having magnetic poles, said stator being molded in a highly corrosion resistant synthetic resin material molding which has a surface positioned radially inwardly of an inner circumferential surface of said stator,

wherein said salient poles of the motor rotor are attracted to rotate by magnetic forces generated by said poles of said stator.

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11. (Amended) A gas transfer machine for transferring a gas including a corrosive gas, comprising: a pump rotor mounted on a rotatable shaft for transferring a gas including a corrosive gas;

a reluctance-type motor for rotating said rotatable shaft about its own axis directly coupled thereto,

said pump rotor and said motor being disposed in a housing;

a motor rotor having salient poles said motor rotor being made of highly-corrosion-resistant metal magnetic material, each of said salient poles being a protrusion portion of unitary formed rotating body, each of said salient poles having a permanent magnet enclosed within said protrusion portion of said unitary formed rotating body;

a motor stator having magnetic poles, said stator being molded in a highly-corrosion-resistant synthetic resin material molding which has a surface positioned radially inwardly of an inner circumferential surface of said stator,

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12 MUH. wherein said salient poles of the motor rotor are attracted to rotate by magnetic forces generated by said poles of said stator.

- 12. (Amended) A gas transfer machine according to claim 11, wherein said stator is embedded in a molded body of said resin material.
- 13. (Amended) A gas transfer machine according to claim 11, wherein said resin material comprises a can of synthetic resin or nonconductive material.
- 14. (Amended) A gas transfer machine according to claim 11, wherein said metal magnetic material comprises an alloy of iron and nickel.
- 15. (Amended) A gas transfer machine according to claim 11, wherein said metal magnetic material comprises permalloy.
- 16. (Amended) A gas transfer machine according to claim 11, wherein said resin material highly resistant to corrosion comprises a can of synthetic resin or nonconductive material.